FMC234

4G LTE CAT 1, WATER-RESISTANT
TRACKER WITH HIGH-CAPACITY BATTERY

IP67

3 DOUT

HIGH-CAPACITY BATTERY

Prolonged autonomous usage

IP67 CASING

Reliable protection against water and dust

4G CAT 1

4G LTE CAT 1 connectivity

IMPULSE INPUTS

Preventing unauthorized veahicle use

INSURANCE TELEMATICS

STOLEN VEHICLE RECOVERY

TRAILER TRACKING

CONSTRUCTION VEHICLE MONITORING

FMC234 with 1000 mAh high-capacity battery, ensures prolonged autonomous usage, when external power is lost or disconnected. It comes equipped with internal GNSS, LTE antennas, configurable digital, analog, negative and impulse inputs, three DOUT outputs, Bluetooth® connectivity, and backup battery. Device also includes integrated possibility to enable Impulse Input for precise fuel flow meter data reading. It is well-suited for applications such as insurance telematics, trailer tracking, stolen vehicle recovery, and construction vehicle monitoring.

Additionally, FMC234 tracker has IP67 certified casing with a click-type two-phase closing mechanism, enhancing its usability in challenging environmental conditions.

67,0 mm

70,5 mm

25,6 mm

Module

Name	FMC234- MBIB0: MeiG SLM320-E with Teltonika TM2500 FMC234- MCIB0: MeiG SLM320-LA with Teltonika TM2500
Technology	LTE(CaT1)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBM
Position Accuracy	< 2.5 CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	LTE Cat 1, GSM
2G bands	FMC234-MBIB0: GSM: B2/B3/B5/B8 FMC234-MCIB0: GSM: B2/B3/B5/B8
4G bands	FMC234-MBIB0: LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD:B38/B40/B41 FMC234-MCIB0: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40
Data transfer	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL)
Transmit power	Class 4 for GSM850/900: 23±2dBm Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-TDD: 23±2.7dBm Class 3 for LTE-FDD: 23±2.7dBm
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	1000 mAh Li-Po rechargeable 3.7 V battery (3.7 Wh)
Internal fuse	3 A, 125 V
Power consumption	At 12V < 3 mA (Ultra Deep Sleep) At 12V < 5 mA (Deep Sleep) At 12V < 16 mA (Online Deep Sleep) At 12V < 18 mA (GPS Sleep) At 12V < 33 mA (nominal with no load) At 12V < 2A Max. (with full Load / Peak)

Bluetooth® technology

Specification	4.0 + LE sensors
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support support

Physical specification

Dimensions	70,5 x 67,0 x 25,6 mm (L x W x H) 85,0 x 67,0 x 25,6 mm (L x W x H) (length with connector socket)
Weight	91,8 g

Operating environment

Operating temperature (without battery)	-20 °C to +85°C
Storage temperature (without battery)	-20 °C to +85 °C
Operating temperature (with battery)	-20 °C to +60 °C
Storage temperature (with battery)	-20 °C to+60 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP67
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

Interface

Digital Inputs	3
Negative Inputs	1 (Digital Input 2)
Impulse Inputs	2 (Digital Input 1, Digital Input 2)
Digital Outputs	3
Analog Inputs	2
CAN Adapter Inputs	1
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM or eSIM
Memory	128MB internal flash memory

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Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip, Jamming
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth® wireless technology), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)

Certification & Approvals

Regulatory	CE RED, E-Mark, Pulse 5A, RoHS, IP Rating